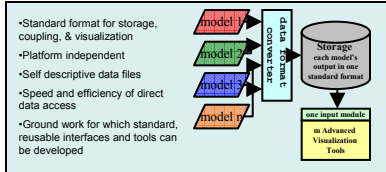
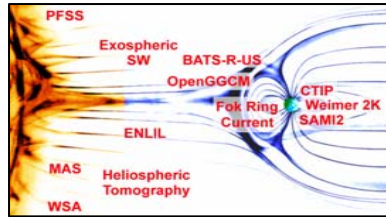
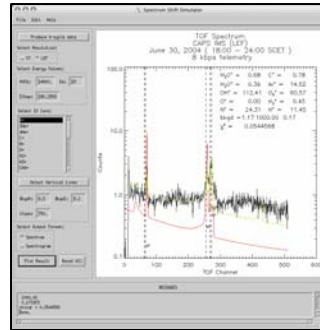


Science Applications

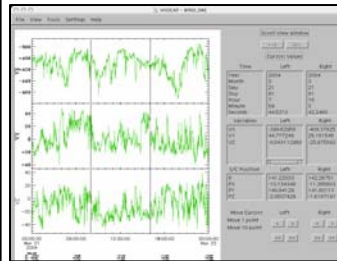
Combining science knowledge with robust numerical methods to develop software driven by specific scientific goals



Mario Maddox' Data Access and Standardization for Sun-Earth Modeling



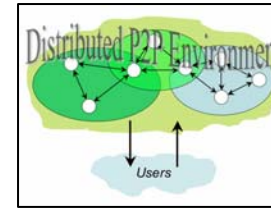
Ezinne Uzo-Okoro's Spectrum Shift Simulator for Cassini/CAPS



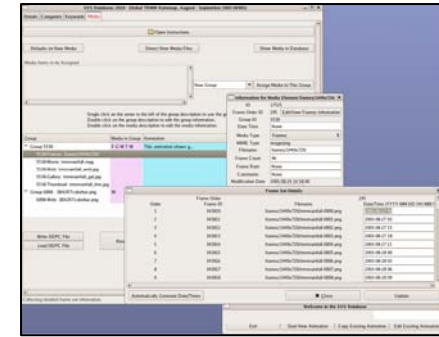
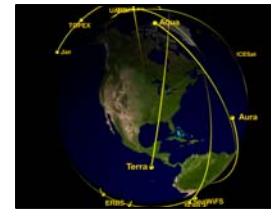
Katie Rash' Virtual Heliospheric Observatory General Analysis Procedure (VHOGAP) User Interface

Data Systems

Managing a collection of information resources with a means to store and provide access to science data for both data providers and end users



Matt Holland's Peer to Peer Science Data Environment

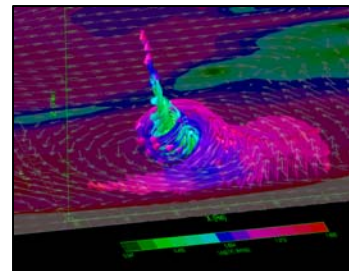


Joycelyn Jones' Content Management System for the Scientific Visualization Studio

Carol Boquist works on EOSDIS, the Earth Observing System Data and Information System. EOSDIS manages and distributes more than 2,400 data products and associated services for interdisciplinary studies through the Distributed Active Archive Centers (DAACs).

Code 587: Advanced Data Management and Analysis Scientific Visualization

Extracting meaningful information out of satellite and model data, allowing for the processing of raw data and images, data mining and analysis, rendering, and mass media distribution



Ryan Boller's MHD Explorer tool being used to detect and visualize magnetospheric flow vortices



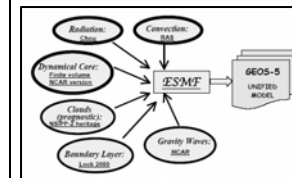
A frame from Lori Perkins' animation of Hurricane Wilma's accumulated rainfall



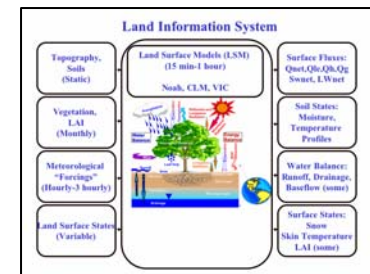
Giovanni data analysis environment from Luther Lighty

Distributed and Parallel Systems

Supporting GSFC's geophysical modeling efforts with high-performance computing



The Earth Science Modeling Framework being used to combine disparate data into the GEOS-5 unified model



Jim Geiger's work on a unified land surface model

David Berrios' Space Weather Explorer visualizing a plasmoid/flux rope

